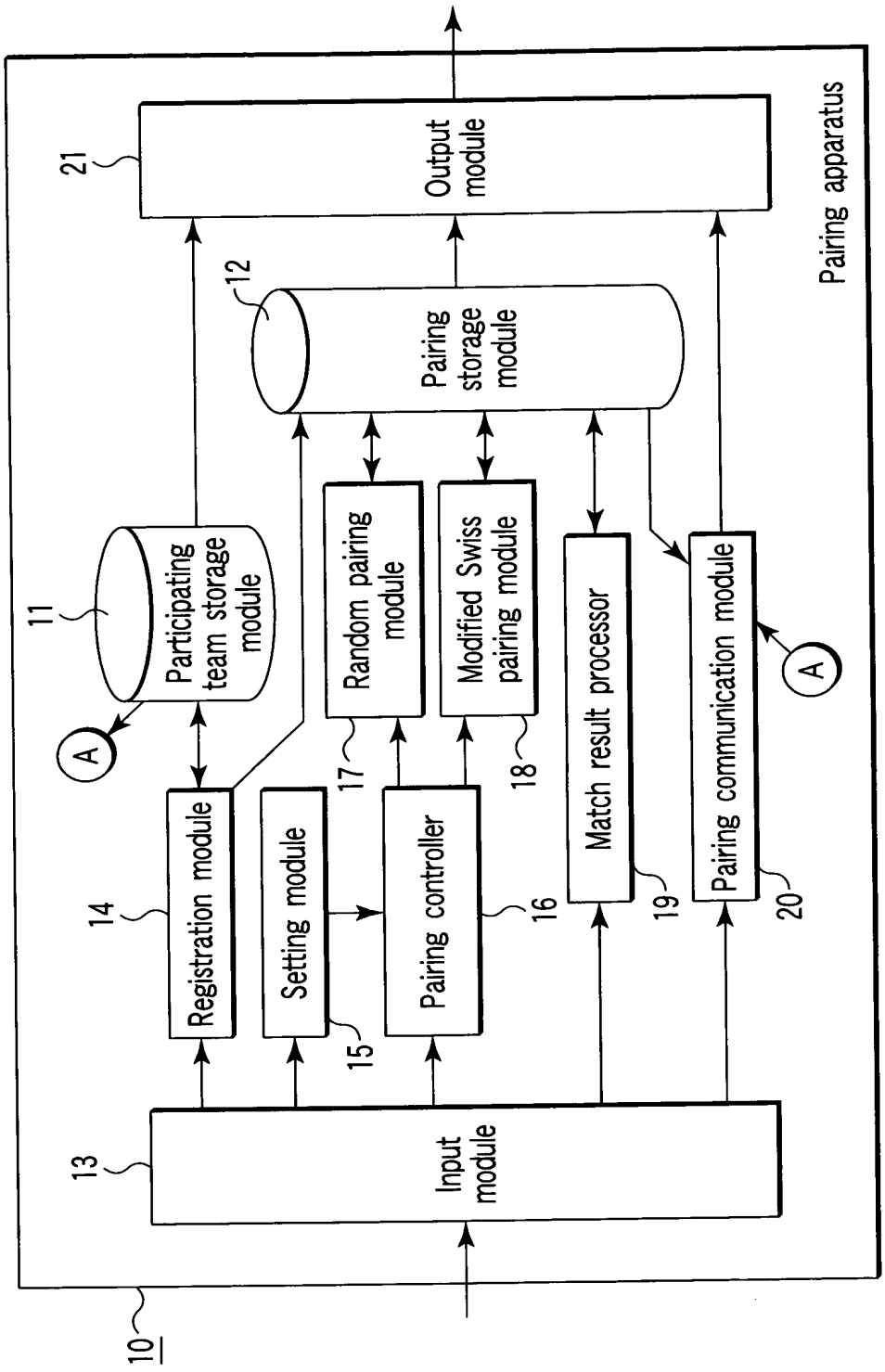
Pairing apparatus
Output module
21
Pairing storage module
12
Participating team storage module
11
Random pairing module
17
Modified Swiss pairing module
18
Match result processor
19
Pairing communication module
20
A
A
Registration module
14
Setting module
15
Pairing controller
16
Input module
13
10

FIG. 1

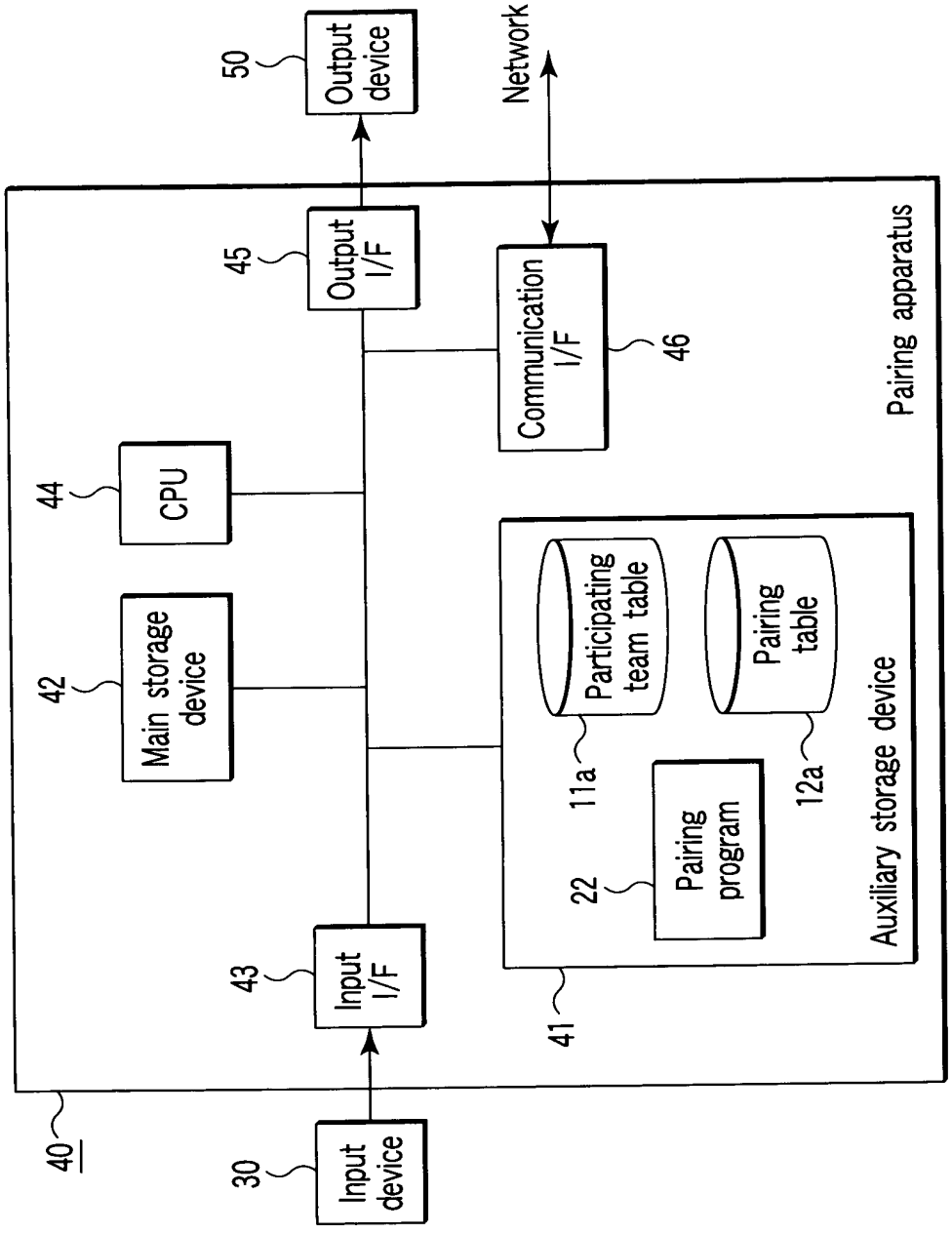
50
Output device
Network
45
Output I/F
Communication I/F
46
Pairing apparatus
44
CPU
42
Main storage device
Participating team table
11a
Pairing table
12a
22
Pairing program
Auxiliary storage device
41
43
Input I/F
40
30
Input device

FIG. 2

Participating team storage module 11

Team number	Team name	Representative name	Member name	Postal code	Address	Phone number	E-mail address
1	Team A						
2	Team A						
⋮	⋮						
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 3

Pairing storage module 12

Team number	Team name	Match result of i-th round						Number of matches			Win point	Rank
		1	⋯	r1	r1+1	⋯	r	Win	Loss	Draw		
1	Team A	5 ○	9 △									
1	Team B	6 ×	3 ○									
⋮	⋮											
⋮	⋮											
⋮	⋮											
⋮	⋮											

○ : Win, × : Win, △ : Win

FIG. 4

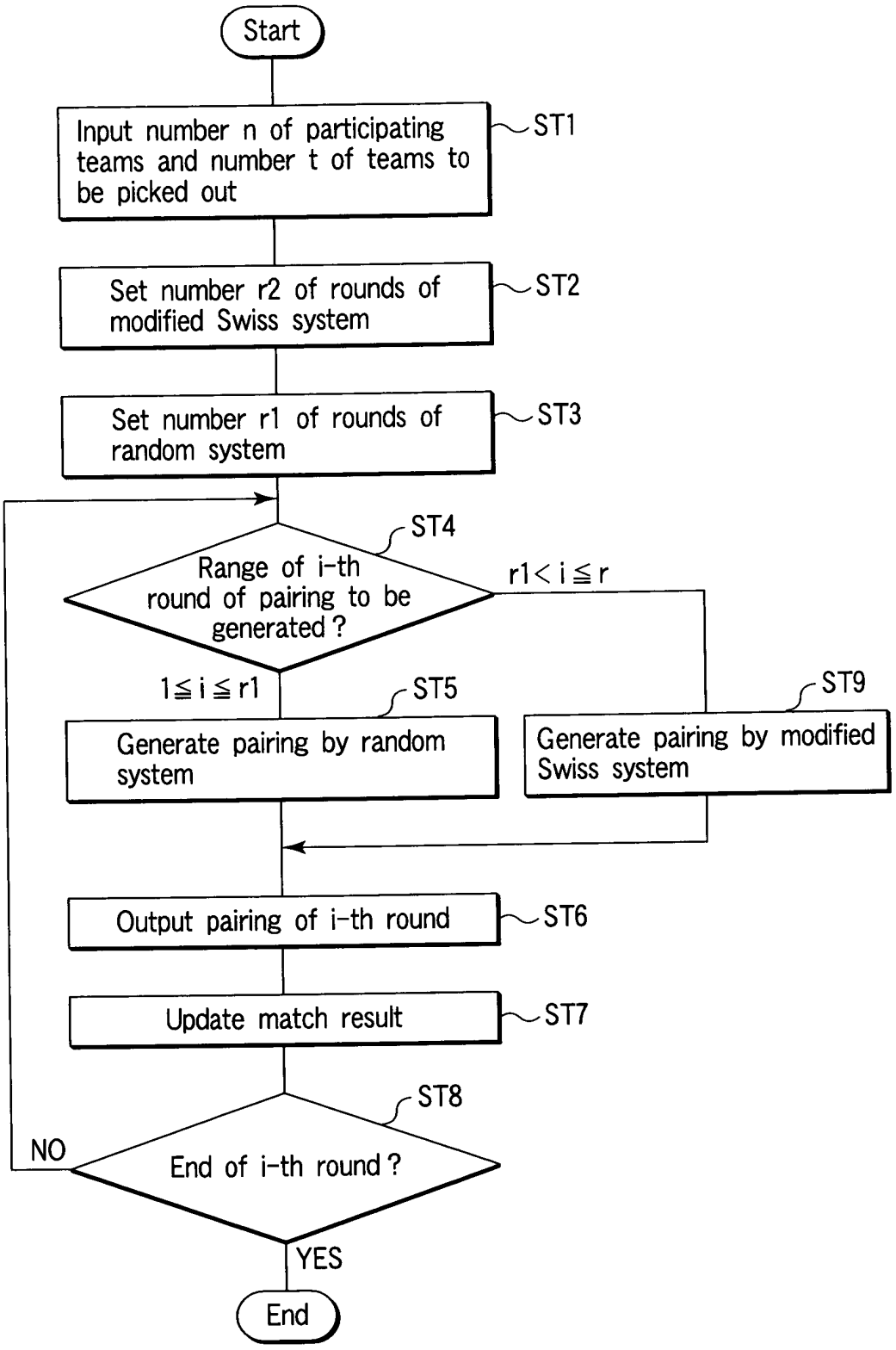
Start
Input number n of participating teams and number t of teams to be picked out
ST1
Set number r2 of rounds of modified Swiss system
ST2
Set number r1 of rounds of random system
ST3
ST4
Range of i-th round of pairing to be generated ?
r1< i ≦ r
1≦ i ≦ r1
ST5
Generate pairing by random system
ST9
Generate pairing by modified Swiss system
Output pairing of i-th round
ST6
Update match result
ST7
ST8
NO
End of i-th round ?
YES
End

FIG. 5

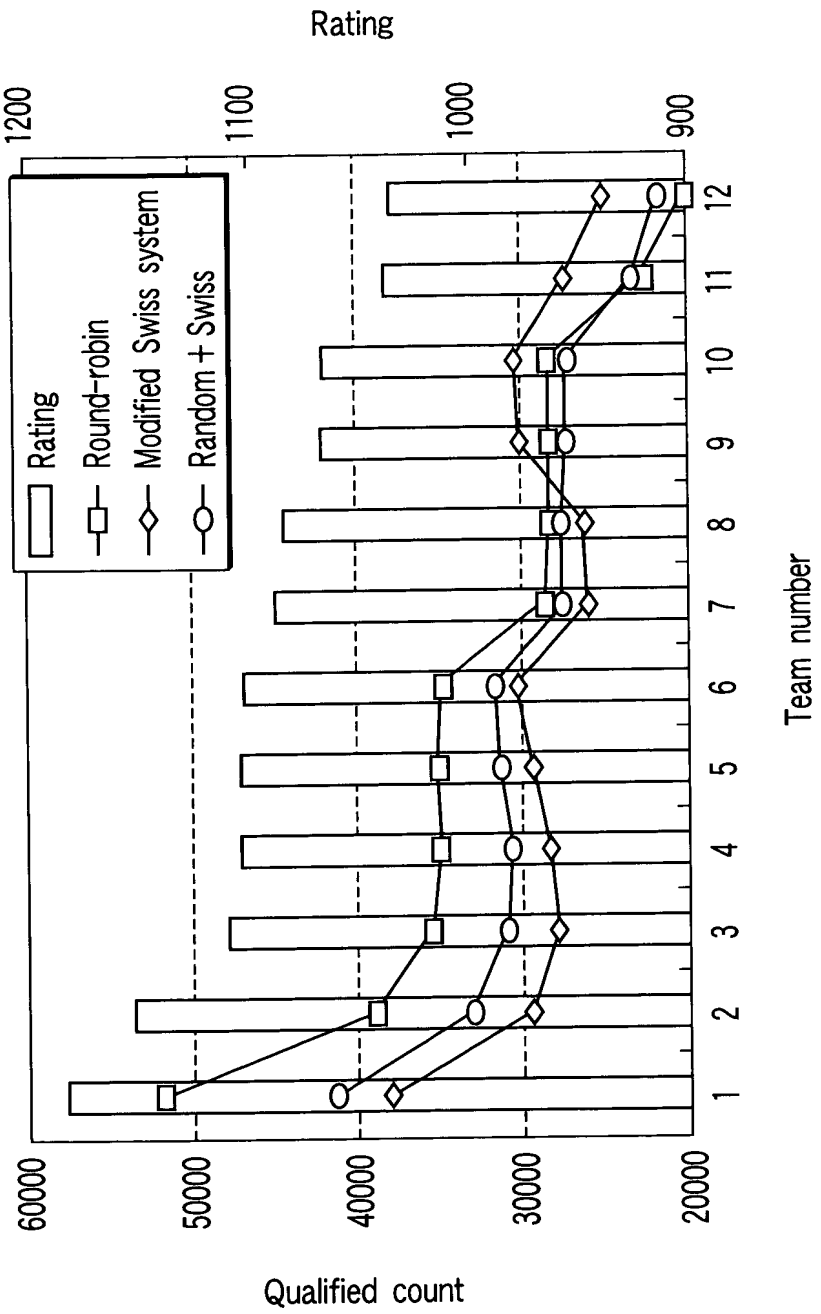
Rating
1200
1100
1000
900
Rating
Round-robin
Modified Swiss system
Random + Swiss
1
2
3
4
5
6
7
8
9
10
11
12
Team number
60000
50000
40000
30000
20000
Qualified count

FIG. 6

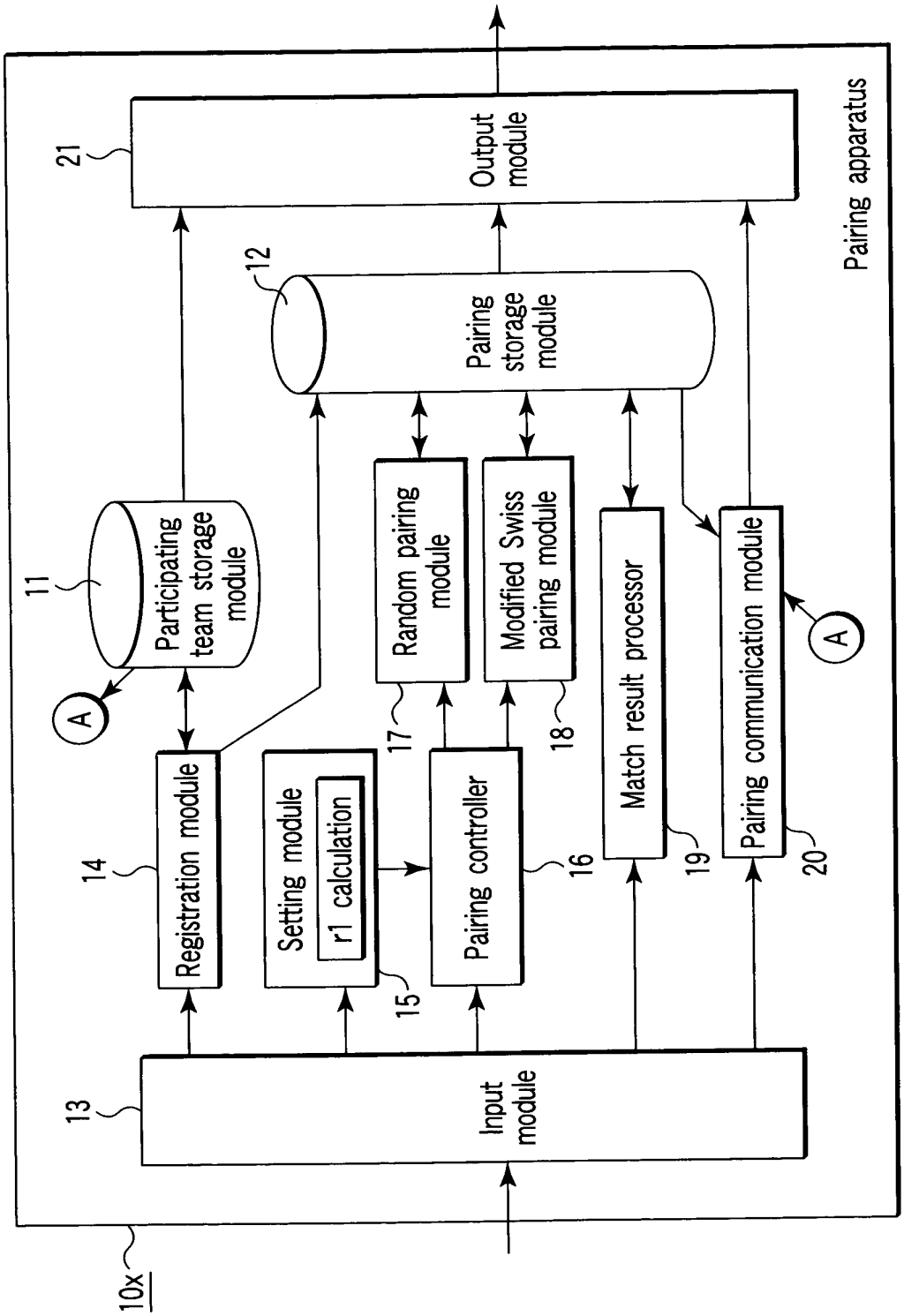
Pairing apparatus
10x
Output module
21
Pairing storage module
12
Participating team storage module
11
Random pairing module
17
Modified Swiss pairing module
18
Match result processor
19
Pairing communication module
20
A
A
Registration module
14
Setting module
r1 calculation
15
Pairing controller
16
Input module
13

FIG. 7

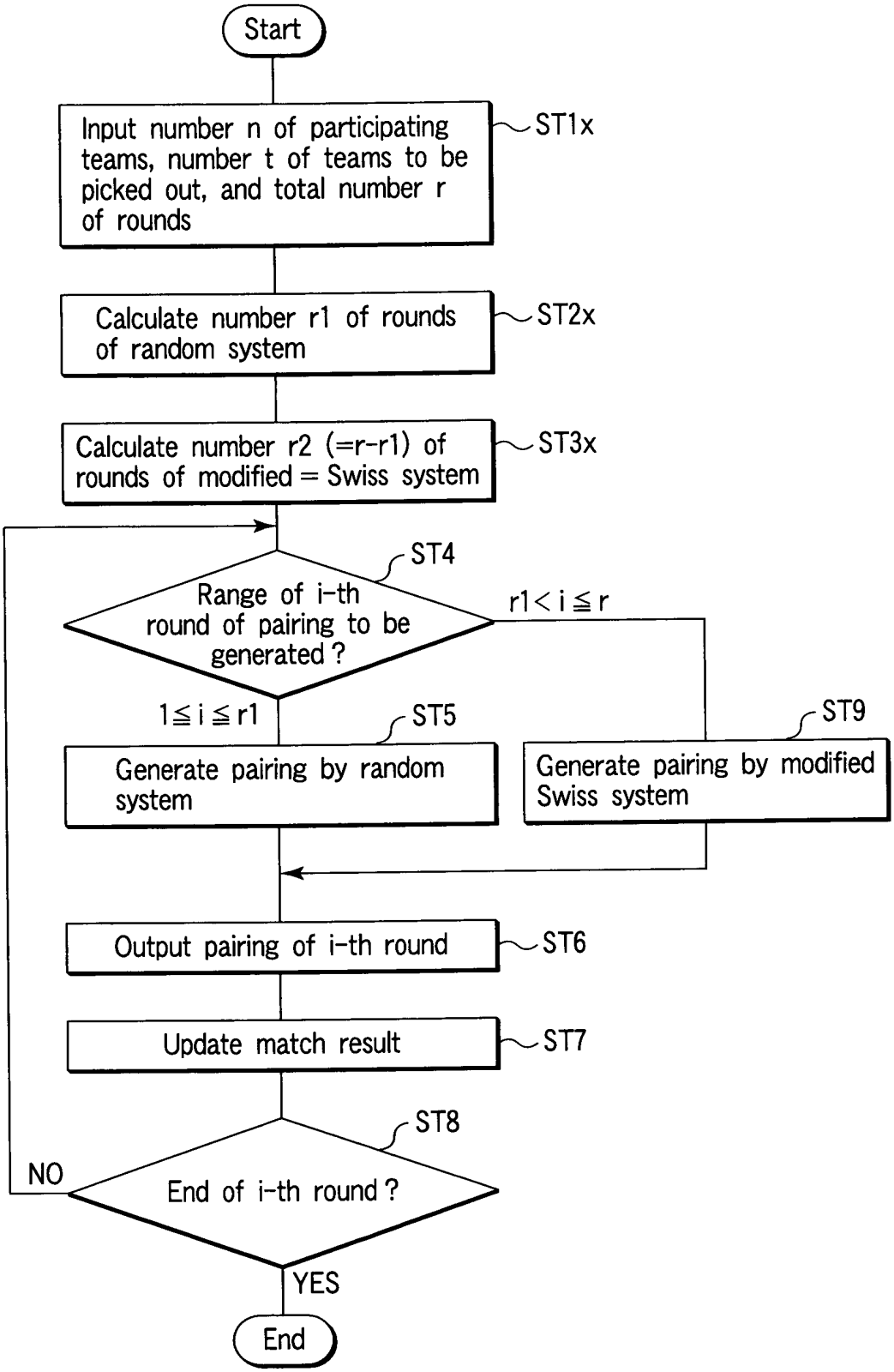
Start
Input number n of participating teams, number t of teams to be picked out, and total number r of rounds
ST1x
Calculate number r1 of rounds of random system
ST2x
Calculate number r2 (=r-r1) of rounds of modified = Swiss system
ST3x
ST4
Range of i-th round of pairing to be generated ?
r1 < i ≦ r
1 ≦ i ≦ r1
ST5
Generate pairing by random system
ST9
Generate pairing by modified Swiss system
Output pairing of i-th round
ST6
Update match result
ST7
ST8
End of i-th round ?
NO
YES
End

FIG. 8

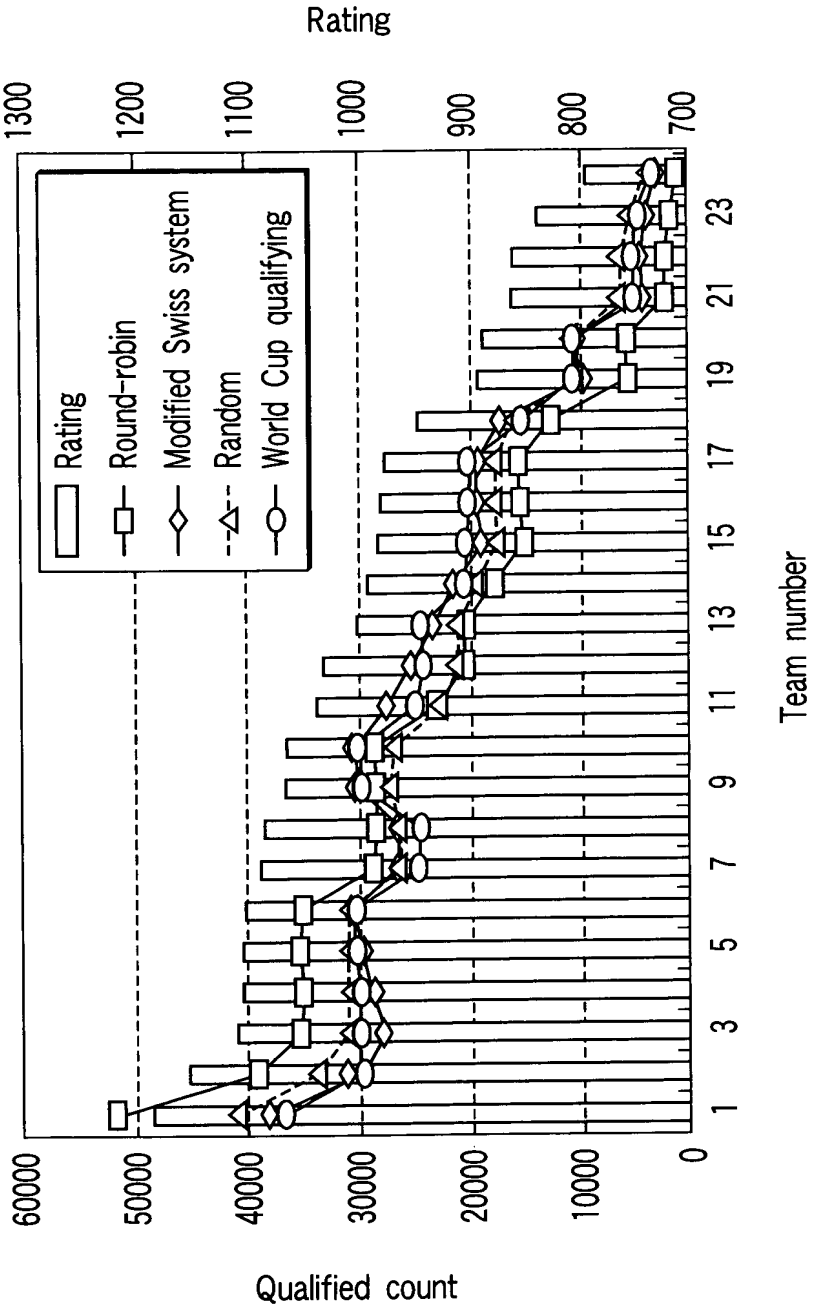
Rating
1300
1200
1100
1000
900
800
700
Rating
Round-robin
Modified Swiss system
Random
World Cup qualifying
1
3
5
7
9
11
13
15
17
19
21
23
Team number
60000
50000
40000
30000
20000
10000
0
Qualified count

FIG. 9

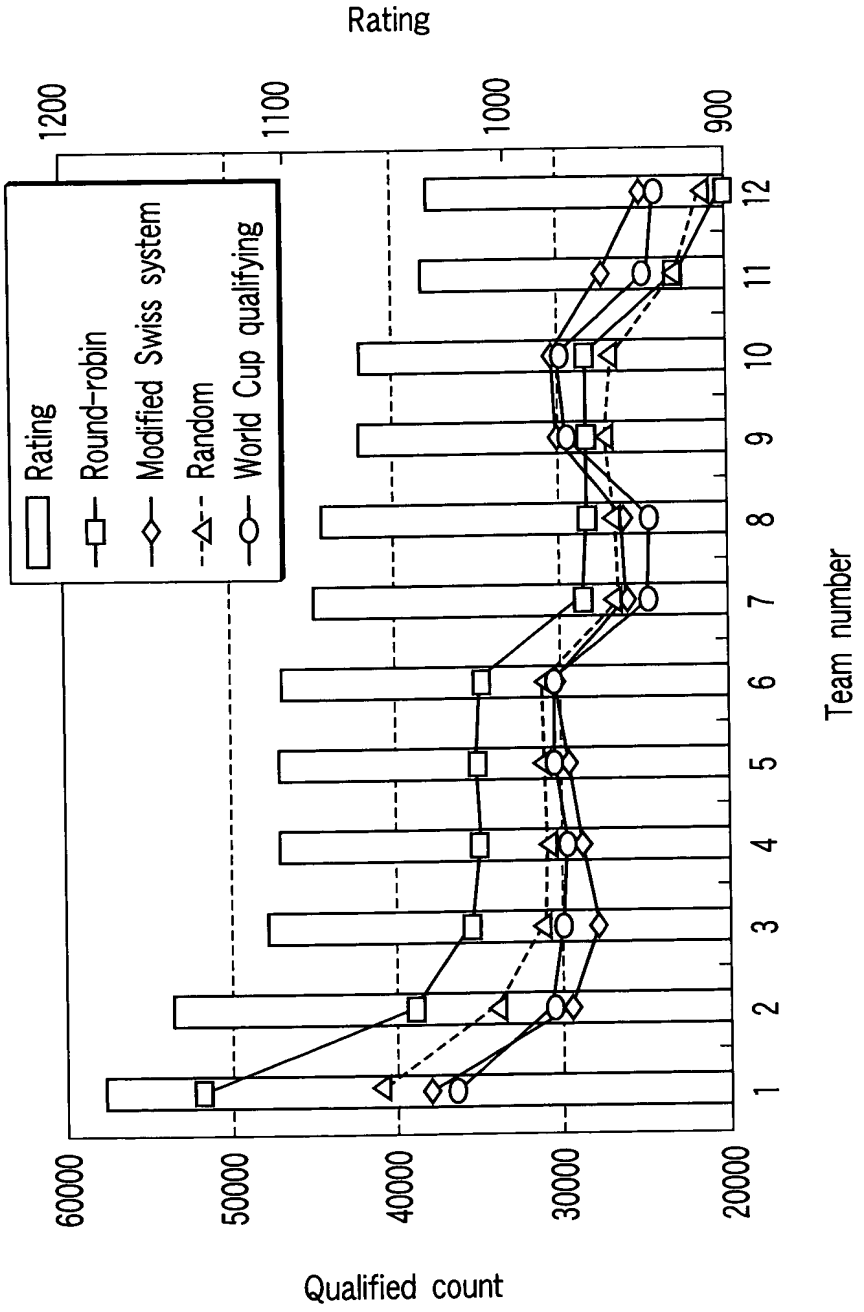
Rating
1200
1100
1000
900
Rating
Round-robin
Modified Swiss system
Random
World Cup qualifying
12
11
10
9
8
7
6
5
4
3
2
1
Team number
60000
50000
40000
30000
20000
Qualified count

FIG. 10

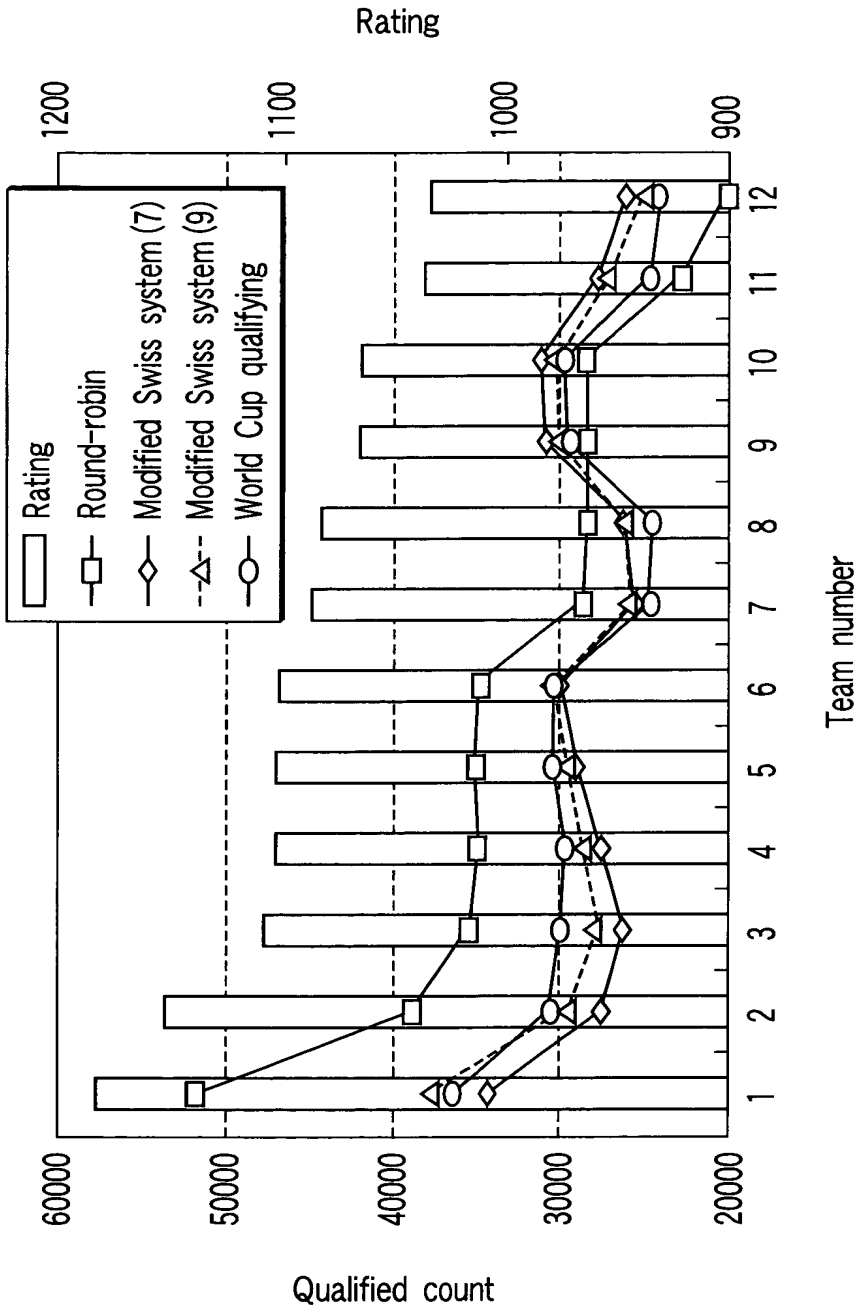
Rating
1200
1100
1000
900
Rating
Round-robin
Modified Swiss system (7)
Modified Swiss system (9)
World Cup qualifying
1
2
3
4
5
6
7
8
9
10
11
12
Team number
60000
50000
40000
30000
20000
Qualified count

FIG. 11